BR. 254/31-7-14

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/W.No.18/LG/CEMENT/2014-15

Date: 14.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. L. Gangadhar,** Contractor,, Bangalore.
NAME OF THE WORK	:	Construction of drain 2nd and 3rd Main RMV Extension in Ward No.18, BBMP, Bangalore.
REFERENCE	:	AEE/H/(WO)/101/2014-15 Dated: 10.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	

Note:

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/W.No.18/LG/SAND/2014-15 : 14.07.201

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Gangadhar,** Contractor,, Bangalore.

Name of Work : Construction of drain 2nd and 3rd Main RMV Extension in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/101/2014-15 Dated: 10.07.2014

Date of Testing : 14.07.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	4.40	4.40	95.6	90-100
2.36	199	9.95	14.35	85.7	75-100
1.18	502	25.10	39.45	60.6	55-90
600 Micron	420	21.00	60.45	39.6	35-59
300 Micron	505	25.25	85.70	14.3	8-30
150 Micron	206	10.30	96.00	4.0	

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/W.No.18/LG/AGG/2014-15 : 14.07.201

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Gangadhar,** Contractor,, Bangalore.

Name of Work : Construction of drain 2nd and 3rd Main RMV Extension in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/101/2014-15 Dated: 10.07.2014

Date of Testing : 14.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25400

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1010	3.98	3.98	96.02	95-100
20	16423	64.66	68.63	31.37	30-70
10	5024	19.78	88.41	11.59	10-35
4.75	2526	9.94	98.36	1.64	

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/W.No.18/LG/CUBE/2014-15 28.07.201

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	: **Mr. L. Gangadhar,** Contractor,, Bangalore.
Name of the work	: Construction of drain 2nd and 3rd Main RMV Extension in Ward No.18, BBMP Bangalore.
Reference	: AEE/H/(WO)/101/2014-15 Dated: 10.07.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	28.07.2014	8.462	389.7	17.32
2	21.07.2014	28.07.2014	8.385	372.4	16.55
3	21.07.2014	28.07.2014	8.269	356.4	15.84

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.